

IN THE CLAIMS

Please amend the claims as follows:

1. (original) Method of reducing the cross-talk between a data signal (HF) and an input push-pull signal (PP), for generating an output push-pull signal (IPP), said method comprising :
 - a convolution step for convoluting said data signal (HF) with a filter (F), for generating a first intermediary signal,
 - a multiplication step for multiplying said first intermediary signal to an adaptive scaling factor (α), for generating a second intermediary signal,
 - a subtracting step for subtracting said second intermediary signal to said input push-pull signal (PP), for generating said output push-pull signal (IPP).
2. (original) Method as claimed in claim 1 where said adaptive scaling factor (α) is defined so as to minimize a cost function (J) that indicates the amount of data to push-pull cross-talk.
3. (original) Method as claimed in claim 1 where said adaptive scaling factor (α) is derived from a look-up table (LUT) indexed with signal-to-noise ratio values of the push-pull signal (PP).

4. (currently amended) Method as claimed in claim ~~2 or 3~~ comprising sampling steps (SRC1, SRC2) for sampling said data signal (HF) and said input push-pull signal (PP) at a frequency (f_c) lower than the channel bit rate (f_b) of the data signal (HF).

5. (original) Method as claimed in claim 4 where the filter (F) is defined by $[1 \ 0 \ -1]$.

6. (original) Device for reducing the cross-talk between a data signal (HF) and an input push-pull signal (PP), for generating an output push-pull signal (IPP), said method comprising :

- convolution means for convoluting said data signal (HF) with a filter (F), for generating a first intermediary signal,
- multiplication means for multiplying said first intermediary signal to an adaptive scaling factor (α), for generating a second intermediary signal,
- subtracting means for subtracting said second intermediary signal to said input push-pull signal (PP), for generating said output push-pull signal (IPP).

7. (currently amended) A computer program comprising code instructions for implementing the steps of the method as claimed in ~~anyone of claims 1 to 5~~claim 1.